

# Industrial Coatings

## Technical Data Sheet

# Joncryl® 507 Polyol



|                                    |  |
|------------------------------------|--|
| <b>Product Description</b>         | Joncryl® 507 is a hydroxyl functional acrylic polyol for polyurethane and melamine crosslinked coatings.   |
| <b>Key Features &amp; Benefits</b> | <ul style="list-style-type: none"><li>- <i>Narrow molecular weight distribution</i></li><li>- <i>n-Butyl acetate version of Joncryl® 500</i></li><li>- <i>For use in low odor applications</i></li></ul> |
| <b>Chemical Composition</b>        | Hydroxyl functional acrylic polyol   |

### Properties

#### Typical Properties

|  |                                       |
|--|---------------------------------------|
| Appearance   | clear liquid                          |
| Hydroxyl number  | ~ 150                                 |
| Non-volatile at 150°C (0.5g, 60 minutes)                           | ~ 81.3%                               |
| Viscosity at 25.0 ± 0.5°C<br>(Brookfield #4LV, 60 rpm, 30 seconds) | ~ 5,500 cps                           |
| Density at 20°C  | 1.05 g/cm <sup>3</sup> (8.73 lbs/gal) |
| Equivalent weight as supplied, of solids                           | 500, 400                              |
| Tg (measured)  | - 7°C (19.4°F)                        |
| Solvent  | n-Butyl acetate                       |
| Freeze-thaw stable   | Yes                                   |

These typical values should not be interpreted as specifications.

### Applications

Joncryl® 507 is an innovative hydroxyl functional acrylic polymer for high solids systems. Coatings formulated with Joncryl® 507 feature a low viscosity with high solids and excellent flow and leveling with acrylic durability. Joncryl® 507 is recommended for urethane coating applications in the industrial coatings market. Joncryl® 507 is an alternate solvent version of Joncryl® 500 for low odor and non-HAPS applications.

Joncryl® 507 is recommended for applications such as:

- Interior/exterior automotive refinish applications
- Interior/exterior general metal industrial coating applications

### Starting Point Formulation

The following starting point formulation is recommended for an initial evaluation of Joncryl® 507. Additional optimization of the formulation will be required to achieve desired results for specific applications.

#### Joncryl® 507 GLOSS CLEAR TOPCOAT, Formula 32002-4A

| <b>Part A</b>     | <b>Pounds</b> | <b>Gallons</b> |
|-------------------|---------------|----------------|
| Joncryl® 507      | 468.50        | 53.67          |
| Irgaflow® 110     | 0.80          | 0.098          |
| MAK               | 171.10        | 25.16          |
| DBTDL (1% in MAK) | 5.00          | 5.00           |
| Subtotal          | 645.40        | 83.93          |
| <b>Part B</b>     |               |                |
| Basonat® HI 100   | 194.60        | 19.94          |
| <b>Total</b>      | <b>840.00</b> | <b>103.87</b>  |

#### Formulation Attributes for Formula 32002-4A

|                              |                              |
|------------------------------|------------------------------|
| Solids                       | 67.2% by wt, 60.1% by volume |
| Viscosity (Brookfield)       | 60 – 70 cps                  |
| NCO:OH ratio                 | 1.05:1.0                     |
| Catalyst level, DBTDL on TRS | 0.005%                       |
| VOC (calculated)             | 325 g/l, 2.8 lbs/gal         |

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### Safety

#### General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of personal protective equipment.

#### Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Joncryl® 507.

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